



DISA Public Key Infrastructure Strategy

AFCEA Tech Net Cyber 2019

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PKI Program Management Office

MISSION

DOD PKI provides for the generation, production, distribution, control, revocation, recovery, and tracking of public key certificates and their corresponding private keys. DOD PKI supports the secure flow of information across the DOD Information Networks as well as secure local storage of information.

Way Ahead for “Evolving PKI”

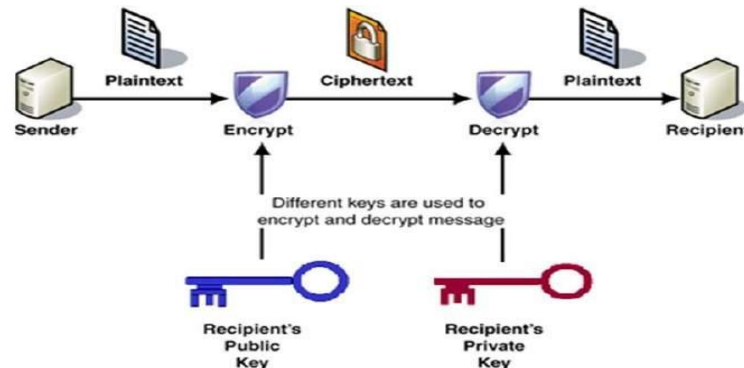
Non Person-Entity
Mobile Credentialing





Why PKI Matters

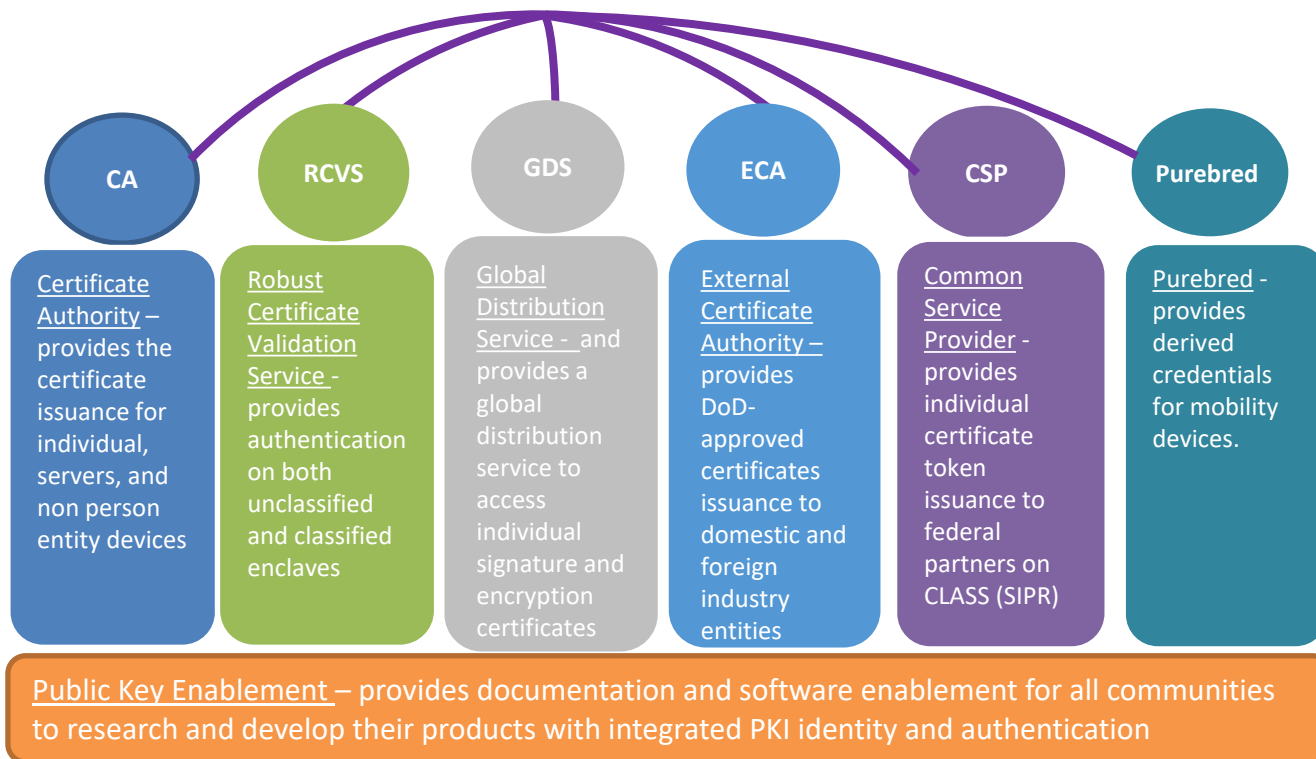
- PKI has emerged as the foundation that is being utilized to provide secure transmission of data and Internet security by providing the cornerstones of security:
 - Identification and Authentication
 - Data Integrity
 - Confidentiality
 - Technical Non-Repudiation
- The elements combine to provide a secure, non-breakable environment for any type of electronic transactions.





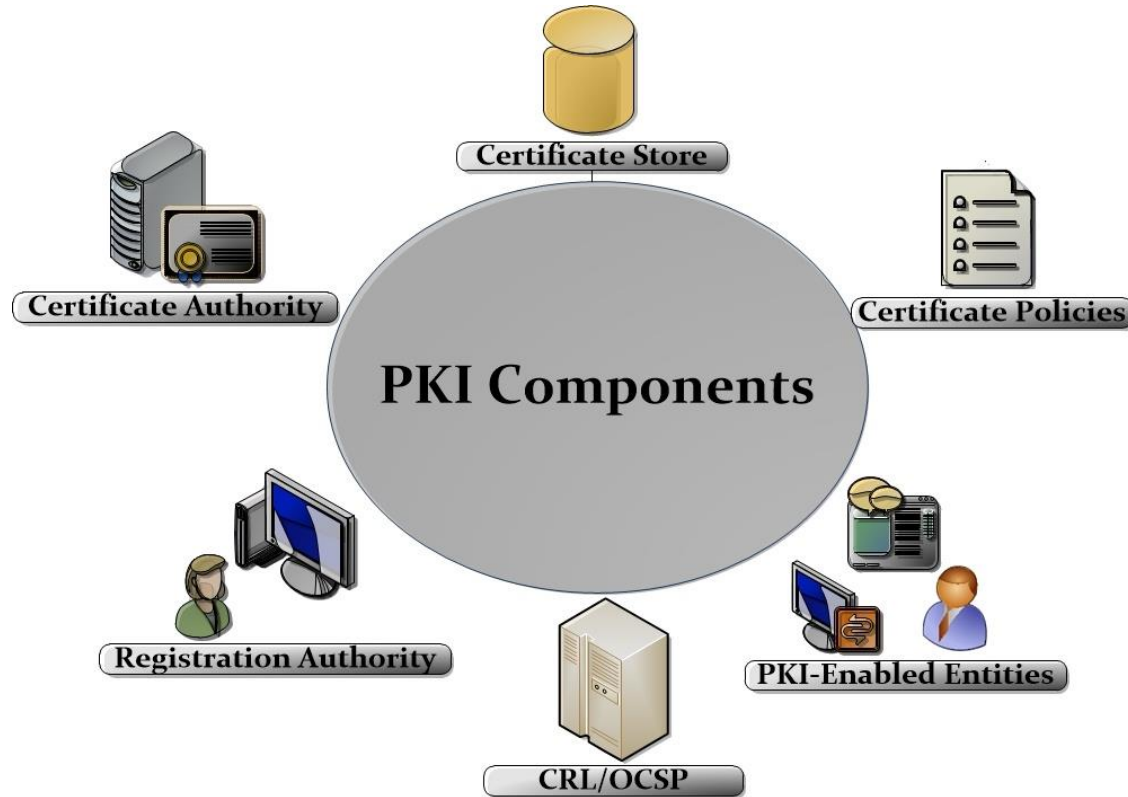
DoD PKI Capabilities

DoD Certificate Infrastructure for the Department of Defense





PKI System Elements

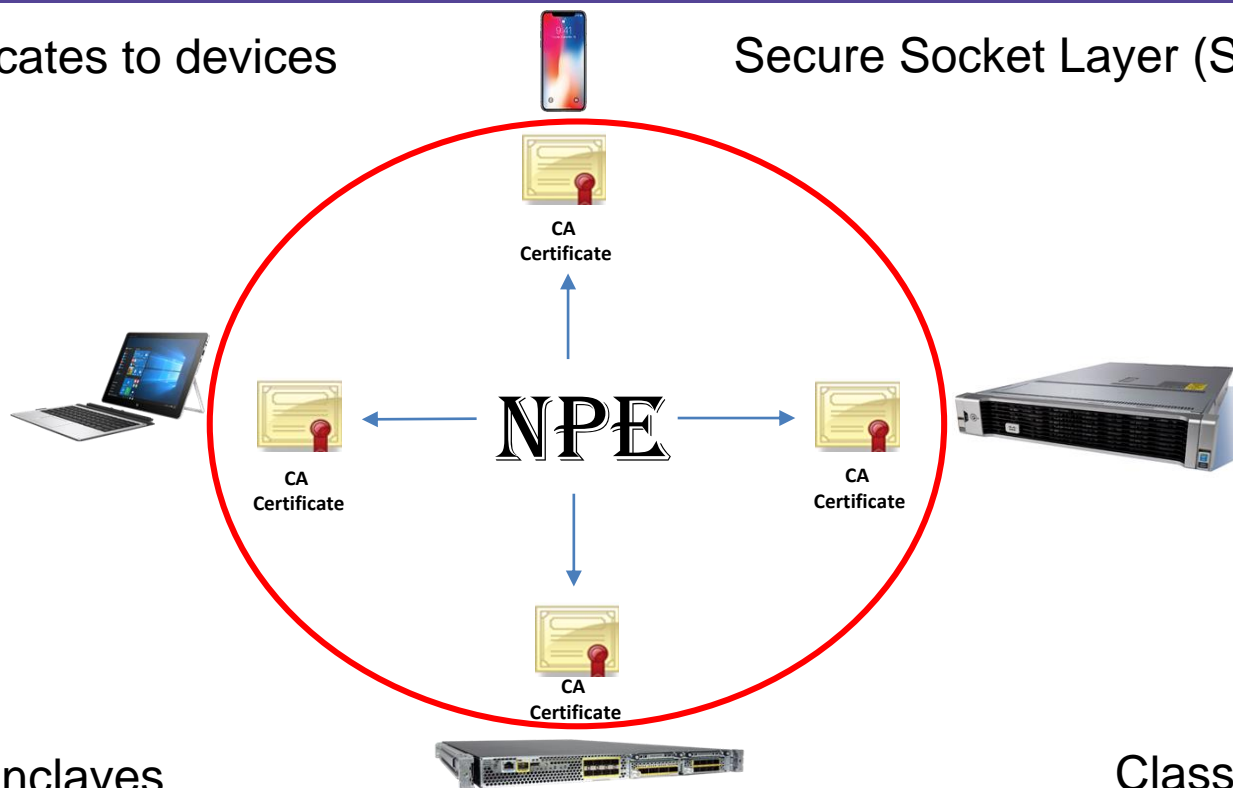




DOD PKI Non Person-Entity (NPE)

Provides certificates to devices

Secure Socket Layer (SSL) certificates



Unclassified Enclaves

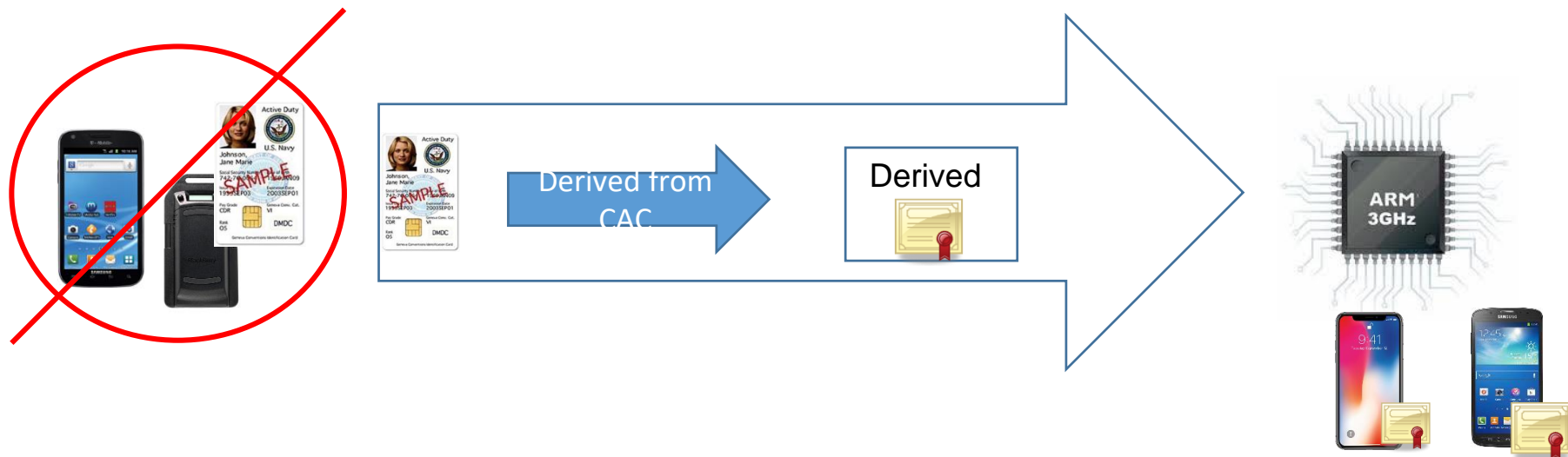
Classified enclaves



Mobile Credentialing Update



Purebred and Mobile Derived Credentials



Purebred issued derived credentials enable CAC holders an alternative form factor to utilize signed and encrypted email and secure web browsing to CAC enabled websites without a reader or sled



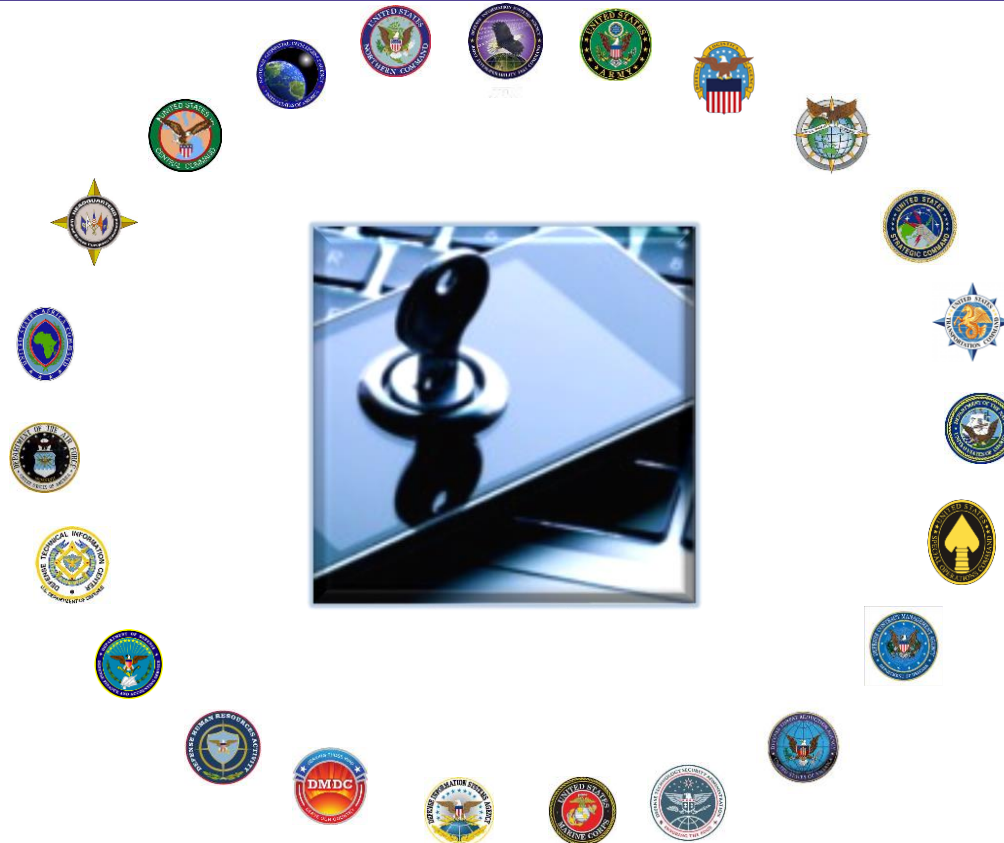
Supported Devices

- Apple iOS Devices (all latest iPhone & iPad models)
98,537 Devices
- Android (Android 6/Marshmallow and above)
11,133 Devices
 - Samsung Knox
 - Android for Work
- Windows 10 Tablets with validated TPM 2.0 chipsets
57 Devices
- Yubikey 4+ Security Tokens
47 Devices





Purebred Customers & Metrics



Devices: 109,835

Agents: 4,284



Purebred Credentials for Mobile Devices

- Contact your service desk or mobility management service provider to determine if Purebred is offered
- If a DoD Mobility Unclassified Capability (DMUC) customer, contact to your Tier I service desk
 - You may need to be migrated to Email+ on iOS (a new mobile email client)
 - https://disa.deps.mil/ext/cop/dod_mobility/DC_Purebred/SitePages/Home.aspx
- If you manage mobile device for your organization and do not offer Purebred to your users, contact the PKI team to onboard your organization
 - dodpke@mail.mil
 - <https://iase.disa.mil/pki-pke/Pages/purebred.aspx>

Your mobile device management capability service provider provides the Purebred app and registration services (agent duties)



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